STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

TEAM ID: PNT2022TMID15187

STEP 1: Import the ibm_db Python library: !pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7 import ibm_db

STEP 2: Identify the database connection credentials:

```
dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-6251e6 ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud" dsn_uid = "vjd29721"      dsn_pwd = "6TTgx8MRBzT45o3q"
dsn_driver = "{IBM DB2

ODBC DRIVER}" dsn_database = "BLUDB" # e.g. "BLUDB" dsn_port = "32328" # e.g. "32733"
dsn_protocol = "TCPIP" # i.e. "TCPIP" dsn_security = "SSL"

#i.e. "SSL"
```

STEP 3: Create the DB2 database connection:

```
dsn = (
    "DRIVER={0};"
    "DATABASE={1};"
    "HOSTNAME={2};"
```

"PORT={3};"

"PROTOCOL={4};"

"UID={5};"

"PWD={6};"
"SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname,

dsn_port, dsn_protocol, dsn_uid, dsn_pwd,dsn_security) print(dsn) Now

establish the connection to the database

try:

conn = ibm_db.connect(dsn, "", "") print ("Connected to database: ",
dsn_database, "as user:

", dsn_uid, "on host: ", dsn_hostname)

except:

print ("Unable to connect: ", ibm_db.conn_errormsg())

```
server = ibm_db.server_info(conn)

print ("DBMS_NAME: ", server.DBMS_NAME) print ("DBMS_VER: ", server.DBMS_VER) print ("DB_NAME: ", server.DB_NAME)

client = ibm_db.client_info(conn)

print ("DRIVER_NAME: ", client.DRIVER_NAME) print ("DRIVER_VER: ", client.DRIVER_VER)

print ("DATA_SOURCE_NAME: ", client.DATA_SOURCE_NAME) print ("DRIVER_ODBC_VER: ", client.DRIVER_ODBC_VER) print ("ODBC_VER: ", client.ODBC_VER)

print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE)

print ("APPL_CODEPAGE: ", client.APPL_CODEPAGE) print ("CONN_CODEPAGE: ", client.CONN_CODEPAGE)
```

STEP 4: Close the Connection:

```
ibm_db.close(conn)
```